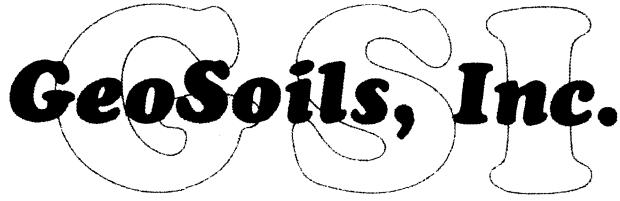


**SECOND RESPONSE TO LIMITED PHASE II  
11739 FUERTE DRIVE, EL CAJON  
SAN DIEGO COUNTY, CALIFORNIA 92020**

**FOR**

**REYNOLD'S COMMUNITIES  
1908 FRIENDSHIP DRIVE, SUITE A  
EL CAJON, CALIFORNIA 92019**

**W.O. E3521.2-SC      JUNE 9, 2008**



Geotechnical • Geologic • Coastal • Environmental

5741 Palmer Way • Carlsbad, California 92010 • (760) 438-3155 • FAX (760) 931-0915

June 9, 2008

W.O. E3521.2-SC

**Reynold's Communities**  
1908 Friendship Drive, Suite A  
El Cajon, California 92019

Attention: Mr. Neal Reynolds

Subject: Second Response to Limited Phase II, 11739 Fuerte Drive, El Cajon,  
San Diego County, California 92020

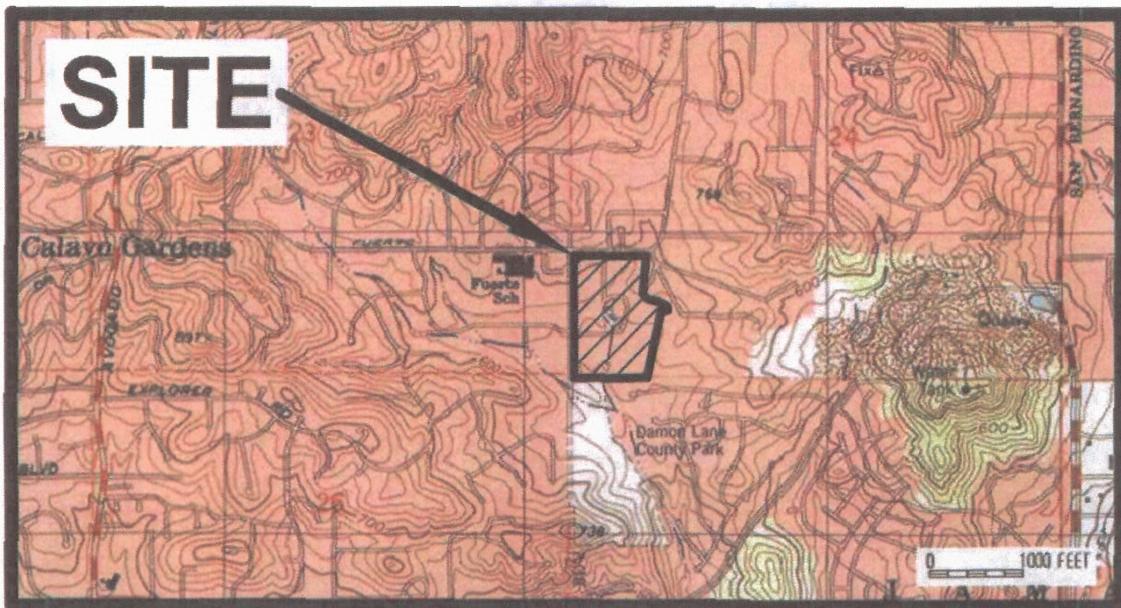
Dear Mr. Reynolds:

In accordance with your request and authorization, GeoSoils, Inc. (GSI) is providing the results of our second response to our Limited Phase II on the subject property in El Cajon, San Diego County, California. This second response was recently required by Ms. Terri Foster, Hazards Specialist of the County of San Diego, Department of Planning and Land Use (DPLU), addressing public comments for additional pesticide/herbicide testing in the drainage area and the chicken coop area. The scope of work for GSI's Limited Phase II and responses included a subsurface investigation in the areas of potential previous "chicken pits," an initial agricultural residue survey, and two additional agricultural residue studies required by DPLU. The agricultural residue survey and studies consisted of sampling for pesticides, herbicides, and insecticides on the subject property to evaluate the presence of restricted agricultural residue contamination on the site. Laboratory test results are provided in Appendix B. Unless specifically superceded herein, the conclusions and recommendations contained in GSI's previous reports (GSI; 2008a, 2008b, 2003a, 2003b, and 2003c) remain pertinent and applicable, and should be appropriately implemented. The land use history of the subject property has been provided in detail in the previous ESA (GSI, 2003c); therefore, only a brief description is provided in the summary below.

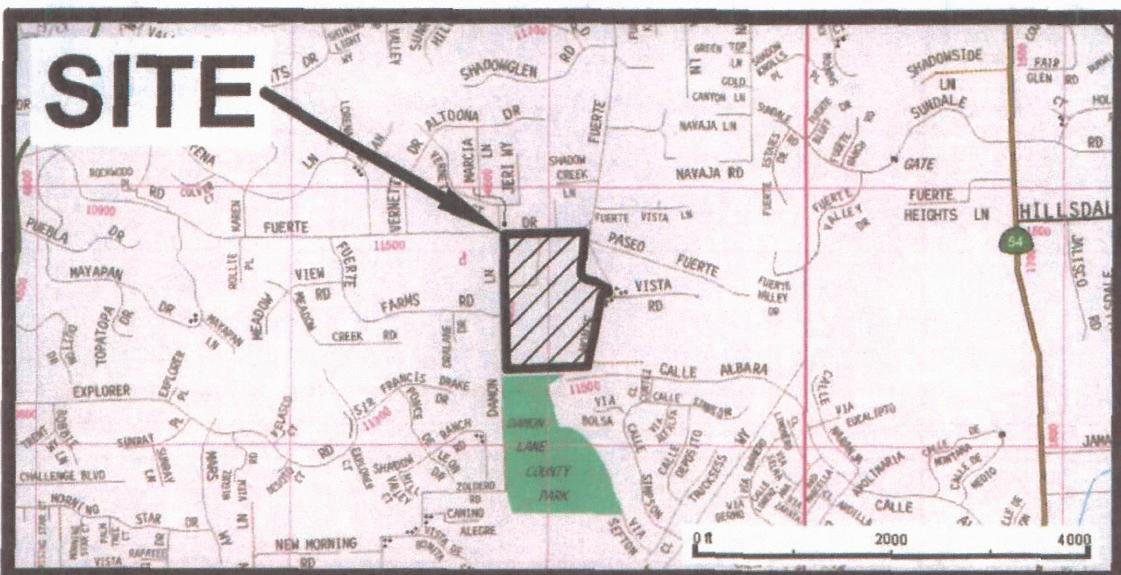
#### SITE DESCRIPTION

##### Site/Project Description

The approximately 27-acre subject property is located south of Fuerte Drive and east of Damon Lane in the City of El Cajon, San Diego County, California (see Figure 1, Site Location Map). Most of the site is located within a drainage basin that flows southward to the Sweetwater River. Topography ranges from 540 feet Mean Sea Level (MSL) to



Base Map: TOPO!® ©2003 National Geographic, U.S.G.S. El Cajon Quadrangle, California -- San Diego Co., 7.5 Minute, dated 1996, current 2000.



Base Map: The Thomas Guide, San Diego County, Street Guide and Directory, 2008 Edition, by Thomas Bros. Maps, page 1271.

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W.O.  
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## SITE LOCATION MAP

Figure 1



approximately 600 feet MSL. Vegetation consists of weeds and scattered trees. Access to the site is currently off of Fuerte Drive.

### **Proposed Development**

It is our understanding that proposed site development would consist of residential single-family homes with associated interior streets and underground utilities.

### **BACKGROUND**

Based upon our knowledge of the site, interviews with the property owner, and review of historic land use utilizing readily available previous reports and historical photographs, portions of the property were utilized for agriculture (avocado and citrus orchard) from at least 1938 to approximately 1940. After 1940, the property was utilized as a poultry farm. Undocumented artificial fill was placed in the present location of the chicken coops to construct level pads for the chicken structures. A small grove of trees was noted on the property in the 1953 aerial photograph. The property has been utilized as a poultry farm from 1940 until the present.

### **SURFACE WATER AND GROUNDWATER**

The property lies within the Hillsdale Hydrologic Subarea (HSA 909.22) of the Middle Sweetwater Hydrologic Area (HA 909.20) of the Sweetwater Hydrologic Unit (HU 909.00) within the San Diego Region (California Regional Water Quality Control Board [RWQCB], 1995). El Cajon falls within Region 9 (San Diego) of the California RWQCB. Existing beneficial uses of groundwater within this HSA are reported to include municipal and domestic supply, agricultural supply, and industrial service supply. Overall, the local groundwater gradient is estimated to be in a southerly direction towards Sweetwater River.

Groundwater beneath the site was encountered at or near the colluvium/bedrock contact in the southern portion of the site, ranging from 2½ feet to 16½ feet deep (GSI, 2003a). Groundwater was encountered in Sample Location S-7 at a depth of 2½ feet (GSI, 2008a). Surface flow is estimated to be to the south.

### **SOIL PARAMETERS**

Soil types encountered in the colluvium onsite consisted of silty to clayey sand, based upon the Unified Soil Classification System (USCS). The soils exhibited a very low expansion potential, based upon GSI's test pits, borings and laboratory testing (GSI, 2003a). Permeability of these colluvial soil types are typically medium to high, when contrasted to soils with other transmissive properties. Based on our borings, the colluvium is underlain by Cretaceous-age granitic bedrock.

## **AGRICULTURAL RESIDUE SURVEY**

To evaluate the potential for restricted agricultural chemical residues, surficial soil samples were collected on February 12, 2008, from a depth of approximately 6 inches from five locations within possible former agricultural areas of the subject property. Sample locations included locations within drainage areas onsite. It is not known where pesticide storage was formerly located. The laboratory report indicated pesticides had been used onsite; thus, additional sampling onsite, as required by the DPLU, was performed on April 11, 2008, to meet the County of San Diego, Department of Environmental Health (DEH) general criteria that included samples at depths of 2 and 4 feet (unless refusal or groundwater was encountered), and at 1 foot to meet specific requirements of the DPLU. Two additional sample locations were added and samples collected at 6 inches, 1 foot, 2 feet, and 4 feet. Based upon comments from the surrounding community, the DPLU, again, required additional sampling; one location in the chicken coop area and another in a centrally located drainage. Community concerns included previous spraying in the chicken coop area and "chemicals" observed in the drainage. Interviews with Mr. Hooper, the property owner, indicated he had previously utilized weed spray in the chicken coop area and, that he had left a broken water line unattended for about a year and the water had ponded and flowed into the drainage. Generally, weed spray has a short life span in soil. On May 21, 2008, GSI collected soil samples in the two additional DPLU specified locations. All sample locations are presented on Plate 1.

Test holes were excavated utilizing a hand auger. Samples were collected, stored, and transported to a California Department of Health Services (DHS) certified laboratory the same day, following quality assurance/quality control procedures (QA/QC) during all soil sampling activities. A Chain-of-Custody record was recorded with the laboratory and is included in the laboratory reports in Appendix B. Chemical analyses included the following substances:

- Soil samples analyzed for Chlorinated Pesticides utilizing EPA Test Method 8081A, as required by the DEH.
- Soil samples analyzed for Organophosphorous pesticides utilizing EPA Test Method 8141A, not required by the DEH.
- Soil samples analyzed for Chlorinated Herbicides utilizing EPA Test Method 8151A, not required by the DEH.

### **Laboratory Chemical Test Results**

A total of nine sample locations were sampled for a total of 35 samples collected. Hard rock was encountered at 3 feet in Sample Location S-1, at 3½ feet in Sample Locations S-4 and S-5, and groundwater was encountered at 2½ feet in Sample Location S-7. Based upon the laboratory test results, there were concentrations of analytes/compounds reported greater than the detection limits for Chlorinated Pesticides (EPA Test

Method 8081A) in two of the nine sample locations (S-1 and S-2), and in four of the 35 samples. Concentrations of DDE were detected in four of the 35 samples ranging from 0.011 milligrams per kilogram (mg/kg) to 0.700 mg/kg. A concentration of 0.0092 mg/kg was detected in one of the 35 samples. Concentrations of DDT were encountered in three of the 35 samples ranging from 0.0094 mg/kg to 0.230 mg/kg.

For comparison purposes, the Preliminary Remediation Goal (PRG) for residential soil, which combines existing USEPA toxicity values with generally accepted exposure factors to estimate concentrations in residential soil that do not represent a cancer risk to humans greater than one-in-one million (i.e.,  $1 \times 10^{-6}$ ), are 1.7 mg/kg for DDE and DDT, 2.4 mg/kg for DDD (Smucker, 2004). PRG tables combine existing USEPA toxicity values with generally accepted exposure factors to estimate concentrations in soil that do not represent a cancer risk to humans greater than one-in-one million (i.e.,  $1 \times 10^{-6}$ ). Exposure pathways considered include ingestion, inhalation, and dermal absorption. Chemical concentrations presented in the PRG tables, therefore, can be directly compared to the residue concentrations detected in soils within the property. The PRG tables may be initially used in lieu of a health based risk assessment to determine the need for further evaluation of sites with concentrations of known cancer-causing contaminants (i.e., site screening). The California Code of Regulations (CCR), Title 22, Division 4.5, establishes regulatory action levels for hazardous waste criteria (i.e., Total Limit Threshold Concentration or TTLC) and it is 1.0 mg/kg each for DDD, DDE, and DDT. Concentrations for DDE, DDD, and DDT greater than the TTLC limits are designated as hazardous. There were no concentrations reported for DDE, DDD, nor DDT, nor any other reported analyte, that were at, or above, the TTLCs, and concentrations were all well below the PRGs. The results of the laboratory data are provided in the following table, in Appendix B and on Plate 1.

**TABLE 1**  
**SUMMARY OF CHEMICAL TEST RESULTS**

SAMPLE ID	DATE COLLECTED	DDE mg/kg	PRG mg/kg	DDD mg/kg	PRG mg/kg	DDT mg/kg	PRG mg/kg	TTLC mg/kg
S-1 @ 0.5'	2-12-08	0.039	1.7	ND	2.4	0.014	1.7	1.0
S-1 @ 1'	4-11-08	0.700	1.7	0.0092	2.4	0.230	1.7	1.0
S-1 @ 2'	4-11-08	0.022	1.7	ND	2.4	ND	1.7	1.0
S-1 @ 3'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-2 @ 0.5'	2-12-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-2 @ 1'	4-11-08	0.011	1.7	ND	2.4	0.0094	1.7	1.0
S-2 @ 2'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-2 @ 4'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-3 @ 0.5'	2-12-08	ND	1.7	ND	2.4	ND	1.7	1.0

SAMPLE ID	DATE COLLECTED	DDE mg/kg	PRG mg/kg	DDD mg/kg	PRG mg/kg	DDT mg/kg	PRG mg/kg	TTLC mg/kg
S-3 @ 1'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-3 @ 2'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-3 @ 4'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-4 @ 0.5'	2-12-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-4 @ 1'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-4 @ 2'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-4 @ 3.5'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-5 @ 0.5'	2-12-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-5 @ 1'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-5 @ 2'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-5 @ 3.5'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-6 @ 0.5'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-6 @ 1'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-6 @ 2'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-6 @ 4'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-7 @ 0.5'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-7 @ 1'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-7 @ 2'	4-11-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-8 @ 0.5'	5-21-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-8 @ 1'	5-21-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-8 @ 2'	5-21-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-8 @ 4'	5-21-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-9 @ 0.5'	5-21-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-9 @ 1'	5-21-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-9 @ 2'	5-21-08	ND	1.7	ND	2.4	ND	1.7	1.0
S-9 @ 4'	5-21-08	ND	1.7	ND	2.4	ND	1.7	1.0

Laboratory test results were reported as "not detected at or above the laboratory detection limits" for Organophosphorus Pesticides (EPA Test Method 8141A) and Chlorinated Herbicides (EPA Test Method 8151A). The laboratory reports are provided in Appendix B.

The scope of work performed for this investigation and responses represents an evaluation of restricted agricultural chemical residues onsite and meets regulatory protocol for this type of survey. The Client and property owner should be aware that California law requires notification of the appropriate regulatory agency if hazardous concentrations

of chemicals/substances are detected. However, hazardous concentrations of pesticides/insecticides/herbicides were not detected in this survey.

### **TEST PITS IN CHICKEN PIT LOCATIONS**

On February 12, 2008, GSI was onsite to excavate exploratory test pits in the approximate locations of potential chicken pits previously and recently described by the property owner and the approximate location of one chicken pit placed on our Geotechnical Map (GSI, 2003a). The purpose of the excavations was for location only, based upon input from Mr. Tom Hooper, the property owner. The chicken pits were not completely exposed and were approximately located utilizing the backhoe. Chicken pits are not considered toxic; however, they are organic and must be properly disposed of offsite during grading. Approximately six various sized chicken pits were exposed during our subsurface investigation. Mr. Hooper indicated dead chickens had been placed in these pits since at least the 1960s. The approximate locations and approximate dimensions of these pits are presented on Plate 1, as provided by Mr. Hooper.

### **PRELIMINARY CONCLUSIONS AND RECOMMENDATIONS**

#### **Conclusions**

Based upon the information obtained during the course of this study, as well as information provided in the referenced texts, GSI presents the following summary of findings, conclusions, and recommendations:

- To evaluate the potential for restricted agricultural chemical residues, surficial soil samples were initially collected at a depth of 6 inches within the subject property. Sampling of earth materials within the subject parcel consisted of a total of five soil samples collected at random locations within possible former agricultural areas. Soil samples collected were analyzed for Chlorinated Pesticides (EPA Test Method 8081A), Organophosphorous Pesticides (EPA Test Method 8141A), and Chlorinated Herbicides (EPA Test Method 8151A). The laboratory report indicated pesticides had been used onsite; thus, additional sampling onsite, as required by the DPLU, was performed on April 11, 2008, to meet the County of San Diego, Department of Environmental Health (DEH) general criteria that included sampling at depths of 2 and 4 feet (unless refusal or groundwater was encountered), and at 1 foot to meet specific requirements of the DPLU. Two additional sample locations were added.

Based upon comments from the surrounding community, the DPLU, again, required additional sampling; one location in the chicken coop area and another in a centrally located drainage. Community concerns included previous spraying in the chicken coop area and "chemicals" observed in the drainage. Interviews with

Mr. Hooper, the property owner, indicated he had previously utilized weed spray in the chicken coop area and, that he had left a broken water line unattended for about a year and the water had ponded and flowed into the drainage. Generally, weed spray has a short life span in soil. On May 21, 2008, GSI collected soil samples in the two additional DPLU specified locations. All sample locations from this study are presented on Plate 1. The laboratory reports are provided in Appendix B.

- There were no concentrations of constituents/parameters reported within the Organophosphorous Pesticides (EPA Test Method 8141A), and Chlorinated Herbicides (EPA Test Method 8151) suites of laboratory tests.
- Except for DDE, DDD, and DDT, no constituents of the Chlorinated Pesticides were reported above the laboratory detection limits (i.e., non-detect). Based upon the laboratory test results, there were concentrations of analytes/compounds reported greater than the detection limits for Chlorinated Pesticides (EPA Test Method 8081A) in two of the nine sample locations (S-1 and S-2), and in four of the 35 samples. Concentrations of DDE were detected in four of the 35 samples ranging from 0.011 milligrams per kilogram (mg/kg) to 0.700 mg/kg. A concentration of 0.0092 mg/kg was detected in one of the 35 samples. Concentrations of DDT were encountered in three of the 35 samples ranging from 0.0094 mg/kg to 0.230 mg/kg.
- For comparison purposes, regulatory action levels for hazardous waste criteria (i.e., Total Limit Threshold Concentration - TTLC) soil are 1.0 mg/kg for DDE, DDD, and DDT. Detected concentrations of DDE, DDD, and DDT onsite are considerably lower than the TTLC criteria. Thus, hazardous concentrations of pesticides/insecticides were not detected in this survey.
- Where applicable, GSI has used existing regulatory data as a screening tool for the detected concentrations of pesticides and other contaminants within the property. Preliminary Remedial Goals (PRGs), which combine existing USEPA toxicity values with generally accepted exposure factors to estimate concentrations in residential soil that do not represent a cancer risk to humans greater than one-in-one million (i.e.,  $1 \times 10^{-6}$ ), are 1.7 mg/kg for DDE and DDT, and 2.4 mg/kg for DDD. Concentrations of DDE and DDT were found to be less than the criteria established as a potential risk to human health (Smucker, 2004).
- The regulatory action levels for hazardous waste criteria TTLC, the PRGs for chemical residues (detected and non-detected onsite), and the chemical laboratory detection limits were compared. In summary, detection limits utilized by the testing laboratory were, overall, below TTLC and PRG levels for all constituents. It appears, therefore, that detection limits utilized by the laboratory are suitable for agricultural-use chemicals.

- Dead chicken pits were encountered at six locations onsite. The approximate locations of these pits are presented on Plate 1.
- Based on the information obtained during the course of this study, as well as information provided in the referenced GSI reports, it is GSI's opinion that the site does not appear to pose a significant risk to human health nor to groundwater, in light of the available data.

### **Recommendations**

Based upon the scope of work completed, GSI concludes that the concentrations of DDE, DDD, and DDT detected in earth materials on the subject property generally are sufficiently below PRGs so as not to represent a significant risk to human health nor to groundwater. Based upon the information obtained during the course of the assessment, GSI presents the following recommendations:

- All other recommendations contained in GSI (2003a, 2003b, and 2003c) should be implemented.
- Chicken bones/feathers, and any manure and manure-rich soils (if present), should be removed from the site and properly disposed of, per the Uniform Building Code/California Building Code ([UBC/CBC], International Conference of Building Officials [ICBO], 1997 and 2001; and California Building Standards Commission [CBSC], 2007). The Building Codes indicate that significant organic material should not be utilized in fill material. This is based on the fact that organic material does not compact well and will likely not provide suitable bearing material for settlement-sensitive developments.
- If required, the appropriate regulatory agencies should be provided with a copy of this report for their review and comment.

### **LIMITATIONS**

GSI has performed the services for this project in accordance with the terms of a specific scope in a contract between GSI and Client, and in general accordance with current professional standards for investigations of this type. The conclusions presented in this report are based on the information collected during the study, the present understanding of the site conditions, and professional judgment.

Please note, subsurface and hazardous waste/toxic substance conditions may vary from those provided in historical documents reviewed by GSI. The interpretations and recommendations of GSI are based solely on such information and/or information supplied by Client. Findings of this assessment based on data provided by others carries no warranty, express or implied, as a result of the usage of such data.

It is possible that future assessments may reveal additional data or variations of the current data which may require the current conclusions and recommendations to be reevaluated. As a result, GSI makes no warranty, either express or implied, as to its findings, opinions, recommendations, specifications, or professional advice except that they were promulgated after being prepared in accordance with generally accepted standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature.

The information in this report is relevant to the date of the site work and should not be relied on to represent conditions at any later date. Facts, conditions, and acceptable risk factors change with time, accordingly, this report should be viewed within this context.

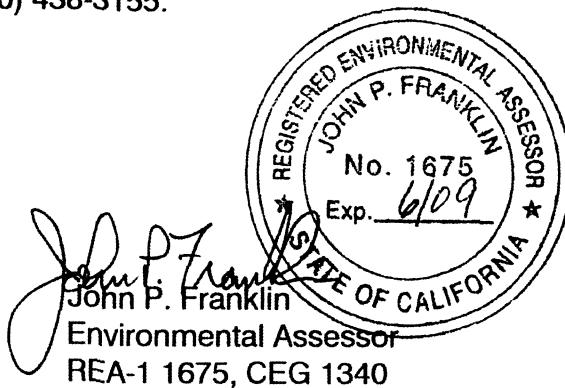
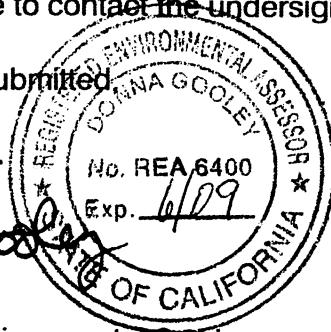
The opportunity to be of services is appreciated. If you should have any questions, please do not hesitate to contact the undersigned at (760) 438-3155.

Respectfully submitted,

**GeoSoils, Inc.**

*Donna Gooley*

Donna Gooley  
Director of Environmental Services  
REA-1 6400, CEG 2336



DG/JPF/jk

Enclosures: Appendix A - References  
Appendix B - Laboratory Reports and Chain-of-Custody  
Plate 1 - Soil Sample Location Map

Distribution: (3) Addressee

- (1) County of San Diego, Department Of Planning and Land Use,  
Attention: Ms. Terri Foster

## **APPENDIX A**

### **REFERENCES**

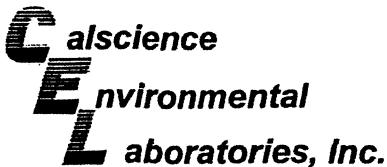
## **APPENDIX A**

### **REFERENCES**

- California Building Standards Commission, 2007, California building code.
- California Regional Water Quality Control Board, 1995, Water quality control plan for the San Diego basin (9), dated September 8.
- GeoSoils, Inc., 2008a, Revised limited phase II, 11739 Fuerte Drive, El Cajon, San Diego County, California 92020, W.O. E3521.2-SC, dated April 25.
- \_\_\_\_\_, 2008b, Limited phase II, 11739 Fuerte Drive, El Cajon, San Diego County, California 92020, W.O. E3521.2-SC, dated February 27.
- \_\_\_\_\_, 2003a, Preliminary geotechnical evaluation, proposed Fuerte Ranch Estates, El Cajon, San Diego County, California, W.O. 3521-A-SC, dated June 3.
- \_\_\_\_\_, 2003b, Results of limited methane gas survey and nitrate groundwater quality study, proposed Fuerte Ranch Estates, El Cajon, San Diego County, California 92020, W.O. E3521.1-SC, dated May 8.
- \_\_\_\_\_, 2003c, Phase I environmental site assessment, 27 acres, 11739 Fuerte Farms Road, El Cajon, San Diego County, California 92020, W.O. E3521-SC, dated February 21.
- International Conference of Building Officials, 2001, California building code, California code of regulations title 24, part 2, volume 1 and 2.
- \_\_\_\_\_, 1997, Uniform building code: Whittier, California, international conference of building officials, Volumes 1, 2, and 3: especially Chapter 16, Structural forces (earthquake provisions); Chapter 18, Foundations and retaining walls; and Chapter A-33, Excavation and grading.
- Smucker, Stanford J., 2004, United States Environmental Protection Agency (USEPA), Region IX, Region 9 preliminary remediation goals (PRGs) Table 2004 update, dated October.
- State of California Environmental Protection Agency, 1992, Supplemental guidance for human health multimedia risk assessments of hazardous waste sites and permitted facilities, Chapter 8, 'DDT in Soil' guidance for the assessment of health risk to humans, dated July.

**APPENDIX B**

**LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS**



nel c

February 25, 2008

Donna Gooley  
GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Subject: **Calscience Work Order No.: 08-02-0963**  
Client Reference: **Fuerte farms / E3521.2-SC**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/13/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Linda Scharpenberg".

Calscience Environmental  
Laboratories, Inc.  
Linda Scharpenberg  
Project Manager

CA-ELAP ID: 1230 • NELAP ID: 03220CA • CSDLAC ID: 10109 • SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501  
W.O. E3521.2-SC-SC

Plate B-1



## Analytical Report



GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 02/13/08  
Work Order No: 08-02-0963  
Preparation: EPA 3545  
Method: EPA 8141A  
Units: mg/kg

Project: Fuerte farms / E3521.2-SC

Page 1 of 3

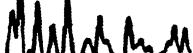
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1@6	08-02-0963-1-A	02/12/08 00:00	Solid	GC 35	02/18/08	02/19/08 19:16	080218L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
Surrogates:	REC (%)	Control Limits		Qual					
Tributylphosphate	87	30-130							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2@6	08-02-0963-2-A	02/12/08 00:00	Solid	GC 35	02/18/08	02/19/08 20:04	080218L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
Surrogates:	REC (%)	Control Limits		Qual					
Tributylphosphate	85	30-130							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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W.O. E3521.2-SC-SC

Plate B-2

GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 02/13/08  
 Work Order No: 08-02-0963  
 Preparation: EPA 3545  
 Method: EPA 8141A  
 Units: mg/kg

Project: Fuerte farms / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3@65	08-02-0963-3-A	02/12/08 00:00	Solid	GC 35	02/18/08	02/19/08 20:52	080218L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Tributylphosphate	87	30-130							

S-4@65	08-02-0963-4-A	02/12/08 00:00	Solid	GC 35	02/18/08	02/19/08 21:40	080218L05
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					
Tributylphosphate	78	30-130							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-3

GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 02/13/08  
 Work Order No: 08-02-0963  
 Preparation: EPA 3545  
 Method: EPA 8141A  
 Units: mg/kg

Project: Fuerte farms / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5@6	08-02-0963-5-A	02/12/08 10:00	Solid	GC 35	02/18/08	02/19/08 22:28	080218L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
Surrogates:	REC (%)	Control		Qual					
		Limits							
Tributylphosphate	83	30-130							

Method Blank	095-01-017416	N/A	Solid	GC 35	02/18/08	02/19/08	080218L05
						11:18	

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
Surrogates:	REC (%)	Control		Qual					
		Limits							
Tributylphosphate	84	30-130							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-4

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 02/13/08  
Work Order No: 08-02-0963  
Preparation: EPA 8151A  
Method: EPA 8151A  
Units: ug/kg

Project: Fuerte farms / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1@6	08-02-0963-1-A	02/12/08 00:00	Solid	GC-0	02/18/08	02/20/08 15:31	080218L09

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
Surrogates:	REC (%)	Control		Qual					
2,4-Dichlorophenylacetic acid	101	30-130							

S-2@6	08-02-0963-2-A	02/12/08 00:00	Solid	GC-0	02/18/08	02/20/08 16:04	080218L09
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
Surrogates:	REC (%)	Control		Qual					
2,4-Dichlorophenylacetic acid	119	30-130							

S-3@6	08-02-0963-3-A	02/12/08 00:00	Solid	GC-0	02/18/08	02/20/08 16:38	080218L09
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
Surrogates:	REC (%)	Control		Qual					
2,4-Dichlorophenylacetic acid	58	30-130							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-5

GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 02/13/08  
 Work Order No: 08-02-0963  
 Preparation: EPA 8151A  
 Method: EPA 8151A  
 Units: ug/kg

Project: Fuerte farms / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-4@0*	08-02-0963-4-A	02/12/08 00:00	Solid	GC 0	02/18/08	02/20/08 17:11	080218L09

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					

2,4-Dichlorophenylacetic acid 98 30-130

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5@0*	08-02-0963-5-A	02/12/08 10:00	Solid	GC 0	02/18/08	02/20/08 17:45	080218L09

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					

2,4-Dichlorophenylacetic acid 120 30-130

Method Blank	095-01-033-7141	N/A	Solid	GC 0	02/18/08	02/19/08 13:19	080218L09

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>					

2,4-Dichlorophenylacetic acid 109 30-130

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-6

GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 02/13/08  
 Work Order No: 08-02-0963  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte farms / E3521.2-SC

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1@6*	08-02-0963-1-A	02/12/08 00:00	Solid	GC-41	02/15/08	02/18/08 16:15	080215L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	14	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	39	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	77	50-130			2,4,5,6-Tetrachloro-m-Xylene	81	50-130		

S-2@6*	08-02-0963-2-A	02/12/08 00:00	Solid	GC-41	02/15/08	02/18/08 16:42	080215L02
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	58	50-130			2,4,5,6-Tetrachloro-m-Xylene	60	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-7



GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 02/13/08  
 Work Order No: 08-02-0963  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte farms / E3521.2-SC

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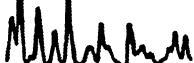
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3@08	08-02-0963-3-A	02/12/08 00:00	Solid	GC 41	02/15/08	02/18/08 17:10	080215L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	81	50-130			2,4,5,6-Tetrachloro-m-Xylene	82	50-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-4@08	08-02-0963-4-A	02/12/08 00:00	Solid	GC 41	02/15/08	02/18/08 17:37	080215L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	80	50-130			2,4,5,6-Tetrachloro-m-Xylene	84	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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W.O. E3521.2-SC-SC

Plate B-8

GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 02/13/08  
 Work Order No: 08-02-0963  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte farms / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5@6*	08-02-0963-5-A	02/12/08 10:00	Solid	GC 41	02/15/08	02/18/08 18:04	080215L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
Decachlorobiphenyl	80	50-130			2,4,5,6-Tetrachloro-m-Xylene	83	50-130		

Method Blank:	099-12-537-254	N/A	Solid	GC 41	02/15/08	02/18/08	080215L02
						14:37	

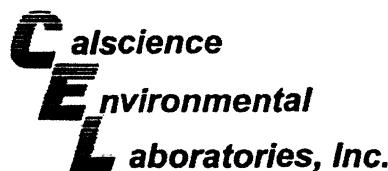
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
Decachlorobiphenyl	109	50-130			2,4,5,6-Tetrachloro-m-Xylene	98	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-9



## Quality Control - Spike/Spike Duplicate

W.A.L. 2008  
nel c

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

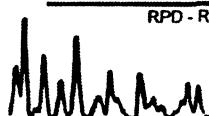
Date Received: 02/13/08  
Work Order No: 08-02-0963  
Preparation: EPA 3545  
Method: EPA 8141A

Project Fuerte farms / E3521.2-SC

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-1207-1	Solid	GC-35	02/18/08	02/19/08	080218S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethoprop	84	85	30-130	1	0-30	
Fensulfothion	90	90	30-130	0	0-30	
Phorate	98	99	30-130	1	0-30	
Ronnel	74	75	30-130	0	0-30	
Tokuthion	72	73	30-130	1	0-30	
Trichloronate	74	79	30-130	7	0-30	

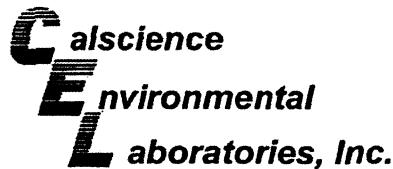
RPD - Relative Percent Difference , CL - Control Limit



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W.O. E3521.2-SC-SC

Plate B-10



## Quality Control - Spike/Spike Duplicate



GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 02/13/08  
Work Order No: 08-02-0963  
Preparation: EPA 8151A  
Method: EPA 8151A

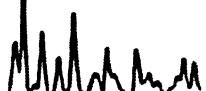
Project Fuerte farms / E3521.2-SC

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-1207-4	Solid	GC 0	02/18/08	02/19/08	080218S09

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
2,4-D	87	84	30-130	4	0-30	
2,4,5-T	99	96	30-130	4	0-30	
2,4-DB	95	90	30-130	5	0-30	

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RPD - Relative Percent Difference , CL - Control Limit

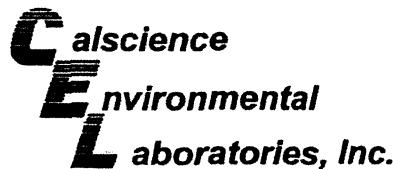


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---

W.O. E3521.2-SC-SC

Plate B-11



## Quality Control - Spike/Spike Duplicate



GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 02/13/08  
Work Order No: 08-02-0963  
Preparation: EPA 3545  
Method: EPA 8081A

Project Fuerte farms / E3521.2-SC

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-0970-131	Solid	GC 41	02/15/08	02/15/08	080215S02

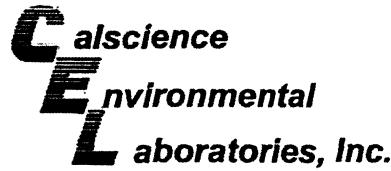
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	75	75	50-135	1	0-25	
Heptachlor	73	73	50-135	0	0-25	
Endosulfan I	72	72	50-135	0	0-25	
Dieldrin	72	72	50-135	0	0-25	
Endrin	80	80	50-135	1	0-25	
4,4'-DDT	74	72	50-135	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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W.O. E3521.2-SC-SC

Plate B-12



## Quality Control - LCS/LCS Duplicate

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

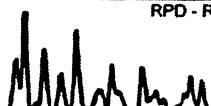
Date Received: N/A  
Work Order No: 08-02-0963  
Preparation: EPA 3545  
Method: EPA 8141A

Project: Fuerte farms / E3521.2-SC

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-017-416	Solid	GC39	02/18/08	02/19/08	080218L05

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethoprop	103	105	30-130	2	0-30	
Fensulfothion	113	117	30-130	3	0-30	
Phorate	119	121	30-130	2	0-30	
Ronnel	92	94	30-130	2	0-30	
Tokuthion	90	92	30-130	2	0-30	
Trichloronate	95	94	30-130	1	0-30	

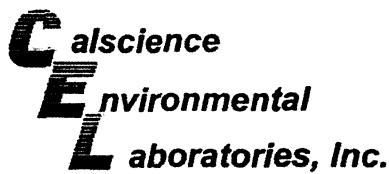
RPD - Relative Percent Difference , CL - Control Limit



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W.O. E3521.2-SC-SC

Plate B-13



## Quality Control - LCS/LCS Duplicate



GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

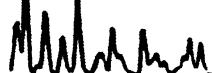
Date Received: N/A  
Work Order No: 08-02-0963  
Preparation: EPA 8151A  
Method: EPA 8151A

Project: Fuerte farms / E3521.2-SC

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-033-714	Solid	GC 0	02/18/08	02/19/08	080218L09

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
2,4-D	117	103	30-130	13	0-30	
2,4,5-T	128	125	30-130	2	0-30	
2,4-DB	123	91	30-130	30	0-30	

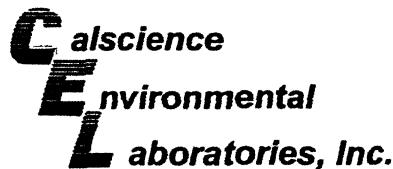
RPD - Relative Percent Difference . CL - Control Limit



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Plate B-14



## Quality Control - LCS/LCS Duplicate

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: N/A  
Work Order No: 08-02-0963  
Preparation: EPA 3545  
Method: EPA 8081A

Project: Fuerte farms / E3521.2-SC

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
09812-537-254	Solid	GC/MS	02/15/08	02/15/08	080215L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	100	115	50-135	13	0-25	
Heptachlor	99	112	50-135	13	0-25	
Endosulfan I	99	113	50-135	12	0-25	
Dieldrin	100	114	50-135	14	0-25	
Endrin	97	109	50-135	12	0-25	
4,4'-DDT	97	113	50-135	15	0-25	

RPD - Relative Percent Difference , CL - Control Limit

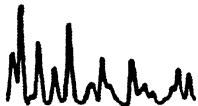
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Plate B-15

Work Order Number: 08-02-0963

<b><u>Qualifier</u></b>	<b><u>Definition</u></b>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



# Calscience Environmental Laboratories, Inc.

SocSci Laboratory  
7440 Lincoln Way  
Garden Grove, CA 92841-1427  
(714) 895-5494

Date 2-13-08

Page 1

## CHAIN OF CUSTODY RECORD

LABORATORY CLIENT: <b>GEO Soils, Inc.</b>		CLIENT PROJECT NAME / NUMBER: <b>Fuerche Farms/E3521.2-SC</b>		P.O. NO.:	
ADDRESS: <b>5741 Palmer Way Carlsbad</b>		PROJECT CONTACT: <b>Donna Gooley</b>		U/B USE ONLY <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
ZIP:	<b>92010</b>	STATE:	<b>CA</b>	SAMPLER(S): (PRINT) <b>Donna Gooley</b>	
TELEPHONE:	<b>760 429 3155</b>	E-MAIL:	<b>dgoleyley@geosoils.com</b>	COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS		SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING FORMS <input type="checkbox"/> COELT EDF		COOLER RECEIPT <input type="checkbox"/> <input type="checkbox"/>	
SPECIAL INSTRUCTIONS:					
REQUESTED ANALYSES					
<input type="checkbox"/> TPH (g) <input type="checkbox"/> VOCs (8260B) <input type="checkbox"/> BTX / MTE (8260B) <input type="checkbox"/> TPH (d) or (C7-C36) or (C7-C41) <input type="checkbox"/> Enocore Prep (5035) <input type="checkbox"/> SVOCs (8270C) <input type="checkbox"/> Pesticides (8181A) <input type="checkbox"/> PCBs (8082) <input type="checkbox"/> PNAs (8310) or (8270C) <input type="checkbox"/> T22 Metals (6010B/747X) <input type="checkbox"/> CR(VI) (7196A or 7199 or 218.6) <input type="checkbox"/> VOCs (7199A or 7199 or 218.6) <input type="checkbox"/> TPH (g/TO-34+)					
LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	TIME	MATRIX
1	S-1 @ 6"		3/16/08	9:01	1
2	S-2 @ 6"				1
3	S-3 @ 6"				1
4	S-4 @ 6"				1
5	S-5 @ 6"				1
RElinquished by: (Signature/Affiliation) <b>Donna Gooley</b>					
RElinquished by: (Signature/Affiliation) <b>John Rehbo</b>					
RElinquished by: (Signature/Affiliation) <b>J. Rehbo</b>					
Received by: (Signature/Affiliation) <b>C.J.</b>					
Received by: (Signature/Affiliation) <b>John Rehbo</b>					
Received by: (Signature/Affiliation) <b>John Rehbo</b>					
Date: <u>2/13/08</u> Time: <u>10:50</u>					
Date: <u>2/13/08</u> Time: <u>10:30</u>					
Date: <u>2/13/08</u> Time: <u>10:30</u>					

W.O. E3521.2-SC-SC

Plate B-17

DISTRIBUTION: White with final report, Green and Yellow to Client.  
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the green and Yellow copies respectively.

05/01/07 Revision

Q&Q Graphite 714-898-9702

## SAMPLE RECEIPT FORM

CLIENT: Geosols

DATE: 2/13/8

### TEMPERATURE - SAMPLES RECEIVED BY:

#### CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.

31.7 °C Temperature blank.

#### LABORATORY (Other than Calscience Courier):

- °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: 

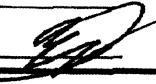
### CUSTODY SEAL INTACT:

Sample(s): \_\_\_\_\_

Cooler: \_\_\_\_\_

No (Not Intact) : \_\_\_\_\_

Not Present:

Initial: 

### SAMPLE CONDITION:

Yes	No	N/A
-----	----	-----

- Chain-Of-Custody document(s) received with samples.....  .....  .....  .....
- Sampler's name indicated on COC.....  .....  .....  .....
- Sample container label(s) consistent with custody papers.....  .....  .....  .....
- Sample container(s) intact and good condition.....  .....  .....  .....
- Correct containers and volume for analyses requested.....  .....  .....  .....
- Proper preservation noted on sample label(s).....  .....  .....  .....
- VOA vial(s) free of headspace. ....  .....  .....  .....
- Tedlar bag(s) free of condensation.....  .....  .....  .....

Initial: 

### COMMENTS:

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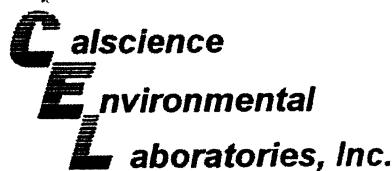
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April 17, 2008

Donna Gooley  
GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Subject: **Calscience Work Order No.: 08-04-1147**  
Client Reference: **Fuerte Ranch / E3521.2-SC**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/11/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Linda Scharpenberg". There is a small horizontal line underneath the signature.

Calscience Environmental  
Laboratories, Inc.  
Linda Scharpenberg  
Project Manager

CA-ELAP ID: 1230 • NELAP ID: 03220CA • CSDLAC ID: 10109 • SCAQMD ID: 93LA0830  
7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

W.O. E3521.2-SC-SC

Plate B-19



GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 04/11/08  
 Work Order No: 08-04-1147  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

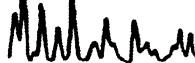
Page 1 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1 @ 1	08-04-1147-1-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 13:02	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	9.2	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	230	100	20	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	700	100	20		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control		Qual	Surrogates:	REC (%)	Control		Qual
Decachlorobiphenyl	93	50-130			2,4,5,6-Tetrachloro-m-Xylene	80	50-130		
S-1 @ 2	08-04-1147-2-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 12:35	080414L11		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	22	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control		Qual	Surrogates:	REC (%)	Control		Qual
Decachlorobiphenyl	87	50-130			2,4,5,6-Tetrachloro-m-Xylene	72	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 04/11/08  
 Work Order No: 08-04-1147  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

Page 2 of 12

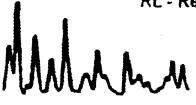
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-1 @ 3	08-04-1147-3-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 13:29	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	77	50-130			2,4,5,6-Tetrachloro-m-Xylene	66	50-130		

S-2 @ 1	08-04-1147-4-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 13:56	080414L11
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	9.4	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	11	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	94	50-130			2,4,5,6-Tetrachloro-m-Xylene	82	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

 7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

W.O. E3521.2-SC-SC

Plate B-21



GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 04/11/08  
 Work Order No: 08-04-1147  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

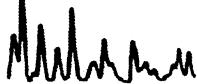
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2 @ 2	08-04-1147-5-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 14:24	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	97	50-130			2,4,5,6-Tetrachloro-m-Xylene	88	50-130		
S-2 @ 4	08-04-1147-6-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 14:51	080414L11		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	89	50-130			2,4,5,6-Tetrachloro-m-Xylene	79	50-130		

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers



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GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 04/11/08  
 Work Order No: 08-04-1147  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3 @ 1	08-04-1147-7-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 16:18	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	88	50-130			2,4,5,6-Tetrachloro-m-Xylene	77	50-130		

S-3 @ 2	08-04-1147-8-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 15:45	080414L11
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	89	50-130			2,4,5,6-Tetrachloro-m-Xylene	77	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-23



GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 04/11/08  
Work Order No: 08-04-1147  
Preparation: EPA 3545  
Method: EPA 8081A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-3 @ 4	08-04-1147-9-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 16:13	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	86	50-130			2,4,5,6-Tetrachloro-m-Xylene	73	50-130		
S-4 @ 1	08-04-1147-10-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 16:40	080414L11		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	94	50-130			2,4,5,6-Tetrachloro-m-Xylene	82	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 04/11/08  
 Work Order No: 08-04-1147  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-4 @ 2	08-04-1147-11-A	04/11/08 00:00	Solid	GC44	04/14/08	04/15/08 17:07	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	81	50-130			2,4,5,6-Tetrachloro-m-Xylene	66	50-130		

S-4 @ 4	08-04-1147-12-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 17:34	080414L11
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	106	50-130			2,4,5,6-Tetrachloro-m-Xylene	92	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 04/11/08  
 Work Order No: 08-04-1147  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5 @ 1	08-04-1147-13-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 18:02	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	85	50-130			2,4,5,6-Tetrachloro-m-Xylene	76	50-130		

S-5 @ 2	08-04-1147-14-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 18:29	080414L11
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	83	50-130			2,4,5,6-Tetrachloro-m-Xylene	69	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 04/11/08  
Work Order No: 08-04-1147  
Preparation: EPA 3545  
Method: EPA 8081A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-6 @ 3 1/2	08-04-1147-15-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 18:56	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
Decachlorobiphenyl	88	50-130			2,4,5,6-Tetrachloro-m-Xylene	75	50-130		

S-6 @ .5	08-04-1147-16-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 19:24	080414L11
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
Decachlorobiphenyl	90	50-130			2,4,5,6-Tetrachloro-m-Xylene	79	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-27



GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 04/11/08  
Work Order No: 08-04-1147  
Preparation: EPA 3545  
Method: EPA 8081A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-6 @ 1	08-04-1147-17-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 19:51	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Diekdrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	79	50-130			2,4,5,6-Tetrachloro-m-Xylene	69	50-130		
S-6 @ 2	08-04-1147-18-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 20:18	080414L11		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Diekdrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	87	50-130			2,4,5,6-Tetrachloro-m-Xylene	71	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 04/11/08  
 Work Order No: 08-04-1147  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-6 @ 4	08-04-1147-19-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/16/08 14:54	080414L11

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	79	50-130			2,4,5,6-Tetrachloro-m-Xylene	59	50-130		
S-7 @ .5	08-04-1147-20-A	04/11/08 00:00	Solid	GC 44	04/14/08	04/15/08 18:03	080414L11		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	73	50-130			2,4,5,6-Tetrachloro-m-Xylene	58	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-29

GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 04/11/08  
 Work Order No: 08-04-1147  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

Page 11 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-7 @ 1	08-04-1147-21-A	04/11/08 00:00	Solid	GC 41	04/14/08	04/15/08 18:31	080414L12

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	66	50-130			2,4,5,6-Tetrachloro-m-Xylene	51	50-130		
S-7 @ 2	08-04-1147-22-A	04/11/08 00:00	Solid	GC 41	04/14/08	04/15/08 18:59	080414L12		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	81	50-130			2,4,5,6-Tetrachloro-m-Xylene	63	50-130		

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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GeoSoils, Inc.  
 5741 Palmer Way  
 Carlsbad, CA 92010-7248

Date Received: 04/11/08  
 Work Order No: 08-04-1147  
 Preparation: EPA 3545  
 Method: EPA 8081A  
 Units: ug/kg

Project: Fuerte Ranch / E3521.2-SC

Page 12 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-537-316	N/A	Solid	GC 41	04/14/08	04/15/08 17:35	080414L12

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>	<u>Limits</u>	<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>	<u>Limits</u>	<u>Qual</u>
Decachlorobiphenyl	103	50-130			2,4,5,6-Tetrachloro-m-Xylene	88	50-130		

Method Blank	099-12-537-317	N/A	Solid	GC 44	04/14/08	04/15/08	080414L11
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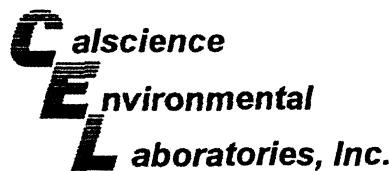
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>	<u>Limits</u>	<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>	<u>Limits</u>	<u>Qual</u>
Decachlorobiphenyl	102	50-130			2,4,5,6-Tetrachloro-m-Xylene	89	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-31



## Quality Control - Spike/Spike Duplicate



GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

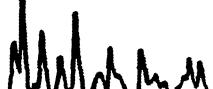
Date Received: 04/11/08  
Work Order No: 08-04-1147  
Preparation: EPA 3545  
Method: EPA 8081A

Project Fuerte Ranch / E3521.2-SC

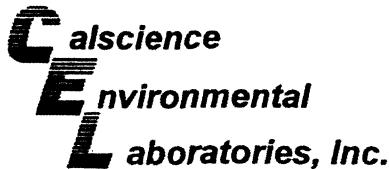
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-4 @ 4	Solid	GC 44	04/14/08	04/15/08	080414S11

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	74	74	50-135	1	0-25	
Heptachlor	72	71	50-135	1	0-25	
Endosulfan I	72	71	50-135	1	0-25	
Dieldrin	73	72	50-135	1	0-25	
Endrin	66	63	50-135	5	0-25	
4,4'-DDT	74	74	50-135	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit



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## Quality Control - Spike/Spike Duplicate

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 04/11/08  
Work Order No: 08-04-1147  
Preparation: EPA 3545  
Method: EPA 8081A

Project Fuerte Ranch / E3521.2-SC

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-7 @ 2	Solid	GC 41	04/14/08	04/15/08	080414S12

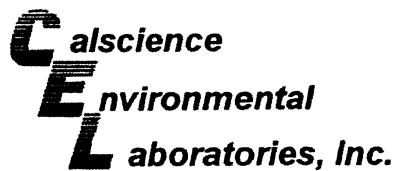
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	70	68	50-135	3	0-25	
Heptachlor	66	64	50-135	2	0-25	
Endosulfan I	66	65	50-135	2	0-25	
Dieldrin	66	65	50-135	2	0-25	
Endrin	68	63	50-135	8	0-25	
4,4'-DDT	66	66	50-135	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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W.O. E3521.2-SC-SC

Plate B-33



## Quality Control - LCS/LCS Duplicate

Sample Acc'd  
nel c

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

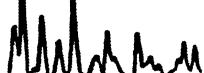
Date Received: N/A  
Work Order No: 08-04-1147  
Preparation: EPA 3545  
Method: EPA 8081A

Project: Fuerte Ranch / E3521.2-SC

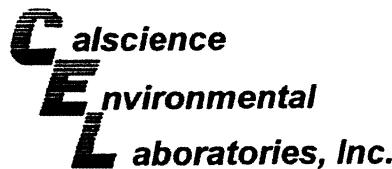
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-317	Solid	GC-44	04/14/08	04/15/08	080414L11

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	85	89	50-135	4	0-25	
Heptachlor	85	88	50-135	4	0-25	
Endosulfan I	84	87	50-135	4	0-25	
Dieldrin	85	89	50-135	5	0-25	
Endrin	76	77	50-135	1	0-25	
4,4'-DDT	86	89	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit



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## Quality Control - LCS/LCS Duplicate



GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: N/A  
Work Order No: 08-04-1147  
Preparation: EPA 3545  
Method: EPA 8081A

Project: Fuerte Ranch / E3521.2-SC

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-316	Solid	GC 41	04/14/08	04/16/08	080414L12

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	85	89	50-135	4	0-25	
Heptachlor	84	88	50-135	5	0-25	
Endosulfan I	84	87	50-135	4	0-25	
Dieldrin	85	89	50-135	4	0-25	
Endrin	65	70	50-135	7	0-25	
4,4'-DDT	84	88	50-135	5	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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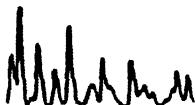
W.O. E3521.2-SC-SC

Plate B-35



Work Order Number: 08-04-1147

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



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# Calscience Environmental Laboratories, Inc.

SocCal Laboratory  
 7440 Lincoln Way  
 Garden Grove, CA 92841-1427  
 (714) 885-5494

NonCal Service Center  
 5063 Commercial Circle, Suite H  
 Concord, CA 94520-8577  
 (925) 689-9022

## CHAIN OF CUSTODY RECORD

Date 4/16/06 -DB

Page 1 of 3

QA/QC Graphic 714-898-9702

LABORATORY CLIENT: <b>GeoSoils</b>		CLIENT PROJECT NAME / NUMBER: <b>Fuerte Ranch/E3521.2-SC</b>		P.O. NO.:	
ADDRESS: <b>5744 Palmer Way Carlsbad</b>		PROJECT CONTACT: <b>Donna Gooley</b>		HAND-USE ONLY <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
CITY <b>Carlsbad</b>	STATE <b>CA</b>	ZIP <b>92010</b>	SAMPLER(S): (PRINT) <b>Donna Gooley</b>	COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	COOLER RECEIPT <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
TEL: <b>760 438 3155</b>	E-MAIL: <b></b>	TEMP- <b>70</b>			
REQUESTED ANALYSES					
7/18/06					
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS					
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING FORMS <input type="checkbox"/> COELT EDF <input type="checkbox"/>					
SPECIAL INSTRUCTIONS:					
Lab Use Only	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	TIME	MATRIX
	<b>S-1 @ 1</b>		<b>4/16/06</b>		<b>Soil</b>
	<b>S-1 @ 2</b>				
	<b>S-1 @ 3</b>				
	<b>S-2 @ 1</b>				
	<b>S-2 @ 2</b>				
	<b>S-2 @ 4</b>				
	<b>S-3 @ 1</b>				
	<b>S-3 @ 2</b>				
	<b>S-3 @ 4</b>				
	<b>S-4 @ 1</b>				
Relinquished by: (Signature) <b>Donna Gooley</b>		Received by: (Signature/Affiliation) <b>John Doe</b>			
Relinquished by: (Signature) <b></b>		Received by: (Signature/Affiliation) <b>Linda G. Steele COZ</b>			
Relinquished by: (Signature) <b></b>		Received by: (Signature/Affiliation) <b>John Doe</b>			

W.O. E3521.2-SC-SC

Plate B-37

DISTRIBUTION: White with final report, Green and Yellow to Client.  
 Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the green and Yellow copies respectively.

05/01/07 Revision



**Calscience Environmental Laboratories, Inc.**

- SoCal Laboratory  
7440 Lincoln Way  
Gardn Grove, CA 92841-1427  
(714) 495-5404
- NorCal Service Center  
5083 Commercial Circle, Suite H  
Concord, CA 94520-8577  
(925) 685-0222

W.O. E3521.2-SC-SC

Plate B-39

**DISTRIBUTION:** While with final report, Green and Yellow to Client.  
Please note that pages 1 and 2 of our T/Cs are printed on the reverse side of the green and Yellow copies respectively.

## SAMPLE RECEIPT FORM

CLIENT: Geosols

DATE: 4/11/8

### TEMPERATURE – SAMPLES RECEIVED BY:

#### CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.

3.7 °C Temperature blank.

#### LABORATORY (Other than Calscience Courier):

- °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: 

### CUSTODY SEAL INTACT:

Sample(s): \_\_\_\_\_

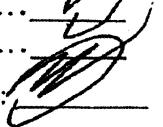
Cooler: \_\_\_\_\_

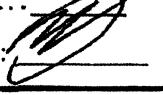
No (Not Intact) : \_\_\_\_\_

Not Present:

Initial: 

### SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	.....	.....
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	.....	.....
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	.....	.....
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	.....	.....
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	.....	.....
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	.....	<input checked="" type="checkbox"/>
VOA vial(s) free of headspace.....	<input checked="" type="checkbox"/>	.....	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input checked="" type="checkbox"/>	.....	

Initial: 

### COMMENTS:

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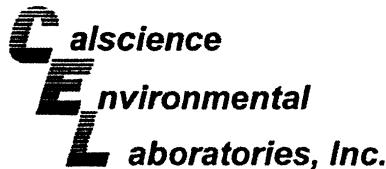
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hel c  
RECEIVED  
2008  
JUN 05  
FBI - LOS ANGELES  
LABORATORY

June 05, 2008

Donna Gooley  
GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Subject: **Calscience Work Order No.: 08-05-1953**  
Client Reference: **Fuerte Ranch / E3521.2**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/21/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Linda Scharpenberg".

---

Calscience Environmental  
Laboratories, Inc.  
Linda Scharpenberg  
Project Manager

CA-ELAP ID: 1230 • NELAP ID: 03220CA • CSDLAC ID: 10109 • SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501  
W.O. E3521.2-SC-SC

Plate B-41



## Analytical Report

AN ACCREDITED  
TEST LABORATORY

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8141A  
Units: mg/kg

Project: Fuerte Ranch / E3521.2

Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8@6"	08-05-1953-1-A	05/21/08 00:00	Solid	GC 35	05/23/08	05/30/08 15:50	080523L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>					
Tributylphosphate	93	30-130							

S-8@1'	08-05-1953-2-A	05/21/08 00:00	Solid	GC 35	05/23/08	05/30/08 16:35	080523L07
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>					
Tributylphosphate	71	30-130							

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-42



## Analytical Report

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GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8141A  
Units: mg/kg

Project: Fuerte Ranch / E3521.2

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8@2'	08-05-1953-3-A	05/21/08 00:00	Solid	GC 35	05/23/08	05/30/08 17:19	080523L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
Surrogates:	REC (%)	Control		Qual					
Tributylphosphate	73	30-130							

S-8@4'	08-05-1953-4-A	05/21/08 00:00	Solid	GC 35	05/23/08	05/30/08 18:03	080523L07
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
Surrogates:	REC (%)	Control		Qual					
Tributylphosphate	73	30-130							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Plate B-43



## Analytical Report



GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8141A  
Units: mg/kg

Project: Fuerte Ranch / E3521.2

Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-9@6"	08-05-1953-5-A	05/21/08 00:00	Solid	GC 35	05/23/08	05/30/08 18:47	080523L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>					
Tributylphosphate	74	30-130							

S-9@1"	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
	08-05-1953-6-A	05/21/08 00:00	Solid	GC 35	05/23/08	05/30/08 19:32	080523L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>					
Tributylphosphate	86	30-130							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-44



## Analytical Report

A stylized logo consisting of the lowercase letters "nel" followed by a large, bold, italicized "C".

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8141A  
Units: mg/kg

Project: Fuerte Ranch / E3521.2

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-9@2'	08-05-1953-7-A	05/21/08 00:00	Solid	GC 35	05/23/08	05/30/08 20:16	080523L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>					
Tributylphosphate	69	30-130							

S-9@4'	08-05-1953-8-A	05/21/08 00:00	Solid	GC 35	05/23/08	05/30/08 21:00	080523L07
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>					
Tributylphosphate	70	30-130							

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-45



## Analytical Report

The logo for nel (National Environmental Laboratory) consists of the letters "nel" in a bold, lowercase, sans-serif font, with a small "e" and "l" positioned above the "n".

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8141A  
Units: mg/kg

Project: Fuerte Ranch / E3521.2

Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-017-449	N/A	Solid	GC 35	05/23/08	05/29/08 10:42	080523L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Azinphos Methyl	ND	0.50	1		Fenthion	ND	0.50	1	
Bolstar	ND	0.50	1		Merphos	ND	0.50	1	
Chlorpyrifos	ND	0.50	1		Methyl Parathion	ND	0.50	1	
Coumaphos	ND	0.50	1		Mevinphos	ND	0.50	1	
Demeton-o	ND	0.50	1		Naled	ND	4.0	1	
Demeton-s	ND	0.50	1		Phorate	ND	0.50	1	
Diazinon	ND	0.50	1		Ronnel	ND	0.50	1	
Dichlorvos	ND	0.50	1		Stirophos	ND	0.50	1	
Disulfoton	ND	0.50	1		Tokuthion	ND	0.50	1	
Ethoprop	ND	0.50	1		Trichloronate	ND	0.50	1	
Fensulfothion	ND	0.50	1						
Surrogates:	REC (%)	Control Limits		Qual					
Tributylphosphate	108	30-130							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-46



## Analytical Report

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 8151A  
Method: EPA 8151A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2

Page 1 of 3

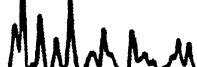
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8@6"	08-05-1953-1-A	05/21/08 00:00	Solid	GC 40	05/29/08	06/03/08 17:33	080529L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual					
2,4-Dichlorophenylacetic acid	60	30-130							
S-8@1'	08-05-1953-2-A	05/21/08 00:00	Solid	GC 40	05/29/08	06/02/08 21:29	080529L03		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual					
2,4-Dichlorophenylacetic acid	50	30-130							
S-8@2'	08-05-1953-3-A	05/21/08 00:00	Solid	GC 40	05/29/08	06/02/08 22:01	080529L03		

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual					
2,4-Dichlorophenylacetic acid	40	30-130							

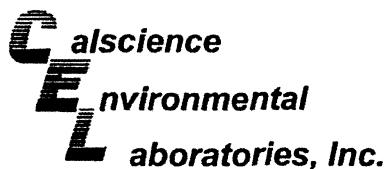
RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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W.O. E3521.2-SC-SC

Plate B-47



## Analytical Report

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 8151A  
Method: EPA 8151A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8@4"	08-05-1953-4-A	05/21/08 00:00	Solid	GC 40	05/29/08	06/02/08 22:34	080529L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>					
2,4-Dichlorophenylacetic acid	35	30-130							

S-9@6"	08-05-1953-5-A	05/21/08 00:00	Solid	GC 40	05/29/08	06/02/08 23:06	080529L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>					
2,4-Dichlorophenylacetic acid	31	30-130							

S-9@1'	08-05-1953-6-A	05/21/08 00:00	Solid	GC 40	05/29/08	06/02/08 23:38	080529L03
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>					
2,4-Dichlorophenylacetic acid	51	30-130							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-48



## Analytical Report

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GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 8151A  
Method: EPA 8151A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-9@2'	08-05-1953-7-A	05/21/08 00:00	Solid	GC 40	05/29/08	06/03/08 00:11	080529L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual		
Dalapon	ND	250	1		2,4-D	ND	100	1			
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1			
MCPP	ND	10000	1		2,4,5-T	ND	10	1			
MCPA	ND	10000	1		2,4-DB	ND	100	1			
Dichlorprop	ND	100	1		Dinoseb	ND	50	1			
Surrogates:	REC (%)	Control		Qual							
2,4-Dichlorophenylacetic acid	48	30-130									
S-9@4'					08-05-1953-8-A	05/21/08 00:00	Solid	GC 40	05/29/08	06/03/08 00:43	080529L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
Surrogates:	REC (%)	Control		Qual					
2,4-Dichlorophenylacetic acid	91	30-130							

Method Blank	095-01-033-753	N/A	Solid	GC 40	05/29/08	06/02/08 18:15	080529L03
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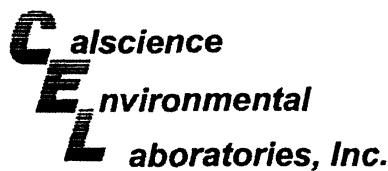
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Dalapon	ND	250	1		2,4-D	ND	100	1	
Dicamba	ND	10	1		2,4,5-TP (Silvex)	ND	10	1	
MCPP	ND	10000	1		2,4,5-T	ND	10	1	
MCPA	ND	10000	1		2,4-DB	ND	100	1	
Dichlorprop	ND	100	1		Dinoseb	ND	50	1	
Surrogates:	REC (%)	Control		Qual					
2,4-Dichlorophenylacetic acid	115	30-130							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-49



## Analytical Report

Sample ID: E3521.2  
Date: 05/21/08

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8081A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2

Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8@6"	08-05-1953-1-A	05/21/08 00:00	Solid	GC 44	05/24/08	05/28/08 00:16	080524L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	91	50-130			2,4,5,6-Tetrachloro-m-Xylene	80	50-130		
S-8@1"	08-05-1953-2-A	05/21/08 00:00	Solid	GC 44	05/24/08	05/28/08 00:44	080524L07		

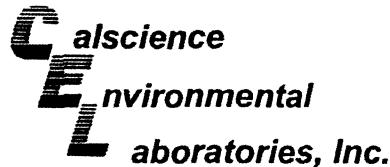
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	94	50-130			2,4,5,6-Tetrachloro-m-Xylene	81	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-50



## Analytical Report

Calscience  
Environmental  
Laboratories, Inc.

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8081A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8@2'	08-05-1953-3-A	05/21/08 00:00	Solid	GC 44	05/24/08	05/28/08 01:11	080524L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control		Qual	Surrogates:	REC (%)	Control		Qual
Decachlorobiphenyl	100	50-130			2,4,5,6-Tetrachloro-m-Xylene	85	50-130		
S-8@4'	08-05-1953-4-A	05/21/08 00:00	Solid	GC 44	05/24/08	05/28/08 01:38	080524L07		

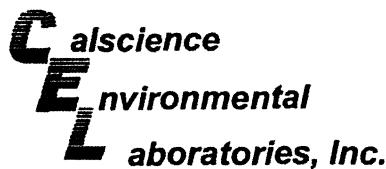
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control		Qual	Surrogates:	REC (%)	Control		Qual
Decachlorobiphenyl	94	50-130			2,4,5,6-Tetrachloro-m-Xylene	79	50-130		

RL - Reporting Limit      DF - Dilution Factor      Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-51



## Analytical Report

Sample ID: E3521.2  
Date: 08-05-2008

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8081A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2

Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-9@6"	08-05-1953-5-A	05/21/08 00:00	Solid	GC 44	05/24/08	05/28/08 02:05	080524L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	97	50-130			2,4,5,6-Tetrachloro-m-Xylene	85	50-130		
<b>S-9@1'</b>					<b>08-05-1953-6-A</b>	<b>05/21/08 00:00</b>	<b>Solid</b>	<b>GC 44</b>	<b>05/24/08</b>
									<b>05/28/08 02:33</b>
									<b>080524L07</b>

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	99	50-130			2,4,5,6-Tetrachloro-m-Xylene	84	50-130		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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W.O. E3521.2-SC-SC

Plate B-52



## Analytical Report

ANALYST: D. G. HARRIS  
DATE: 05/28/08  
TIME: 03:27

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8081A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2

Page 4 of 5

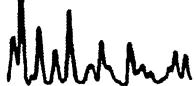
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-9@2'	08-05-1953-7-A	05/21/08 00:00	Solid	GC 44	05/24/08	05/28/08 03:00	080524L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	100	50-130			2,4,5,6-Tetrachloro-m-Xylene	84	50-130		

S-9@4'	08-05-1953-8-A	05/21/08 00:00	Solid	GC 44	05/24/08	05/28/08 03:27	080524L07
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Decachlorobiphenyl	99	50-130			2,4,5,6-Tetrachloro-m-Xylene	84	50-130		

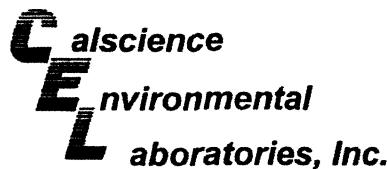
RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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W.O. E3521.2-SC-SC

Plate B-53



## Analytical Report

Sample ID: E3521.2  
Date: 05/27/08  
Time: 14:44  
Page: 5 of 5

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8081A  
Units: ug/kg

Project: Fuerte Ranch / E3521.2

Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-537-364	N/A	Solid	GC 44	05/24/08	05/27/08 14:44	080524L07

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Alpha-BHC	ND	5.0	1		Endrin	ND	5.0	1	
Gamma-BHC	ND	5.0	1		Endrin Aldehyde	ND	5.0	1	
Beta-BHC	ND	5.0	1		4,4'-DDD	ND	5.0	1	
Heptachlor	ND	5.0	1		Endosulfan II	ND	5.0	1	
Delta-BHC	ND	5.0	1		4,4'-DDT	ND	5.0	1	
Aldrin	ND	5.0	1		Endosulfan Sulfate	ND	5.0	1	
Heptachlor Epoxide	ND	5.0	1		Methoxychlor	ND	5.0	1	
Endosulfan I	ND	5.0	1		Chlordane	ND	50	1	
Dieldrin	ND	5.0	1		Toxaphene	ND	100	1	
4,4'-DDE	ND	5.0	1		Endrin Ketone	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	106	50-130			2,4,5,6-Tetrachloro-m-Xylene	92	50-130		

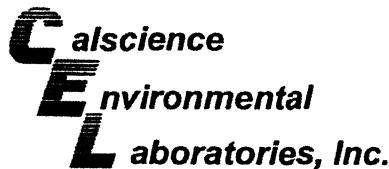
RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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W.O. E3521.2-SC-SC

Plate B-54



## Quality Control - Spike/Spike Duplicate

A circular logo containing the letters "nel c". The "nel" is in a stylized font, and "c" is in a smaller circle to its right. Above the circle, the words "NATIONAL ENVIRONMENTAL LABORATORIES" are written in a small, faint font.

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

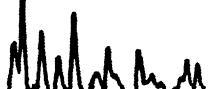
Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8141A

Project Fuerte Ranch / E3521.2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-05-1687-21	Solid	GC 35	05/23/08	05/30/08	080523S07

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethoprop	82	80	30-130	3	0-30	
Fensulfothion	95	93	30-130	2	0-30	
Phorate	98	96	30-130	3	0-30	
Ronnel	68	63	30-130	8	0-30	
Tokuthion	69	67	30-130	2	0-30	
Trichloronate	73	68	30-130	7	0-30	

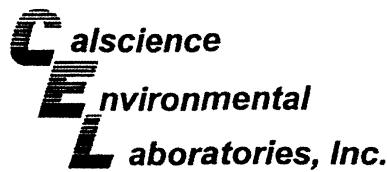
RPD - Relative Percent Difference , CL - Control Limit



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W.O. E3521.2-SC-SC

Plate B-55



### Quality Control - Spike/Spike Duplicate

*Quality Control  
Spike/Spike Duplicate*

nel

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received:	05/21/08
Work Order No:	08-05-1953
Preparation:	EPA 8151A
Method:	EPA 8151A

Project Fuerte Ranch / E3521.2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-05-2118-4	Solid	GC 40	05/29/08	06/02/08	080529S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
2,4-D	105	122	30-130	15	0-30	
2,4,5-T	15	17	30-130	14	0-30	3
2,4-DB	78	86	30-130	9	0-30	

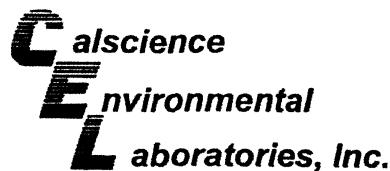
RPD - Relative Percent Difference , CL - Control Limit



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W.O. E3521.2-SC-SC

Plate B-56



## Quality Control - Spike/Spike Duplicate

Sample ID: 100-00000000  
nel c

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

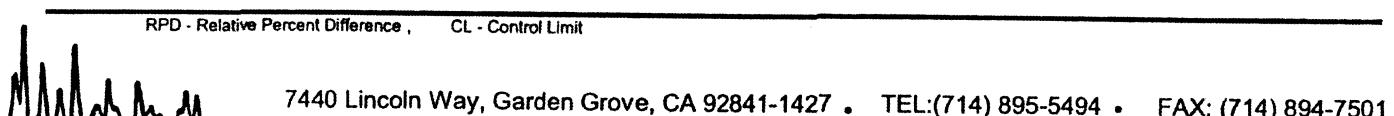
Date Received: 05/21/08  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8081A

Project Fuerte Ranch / E3521.2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-8@4'	Solid	GC 44	05/24/08	05/27/08	080524S07

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	81	76	50-135	6	0-25	
Heptachlor	80	76	50-135	6	0-25	
Endosulfan I	68	64	50-135	7	0-25	
Dieldrin	80	74	50-135	7	0-25	
Endrin	83	78	50-135	6	0-25	
4,4'-DDT	97	84	50-135	13	0-25	

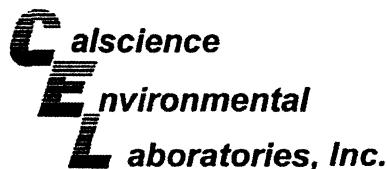
RPD - Relative Percent Difference , CL - Control Limit



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W.O. E3521.2-SC-SC

Plate B-57



## Quality Control - LCS/LCS Duplicate

A stylized logo consisting of the lowercase letters "nel" followed by a large, bold, italicized letter "c".

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

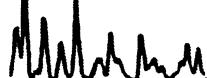
Date Received: N/A  
Work Order No: 08-05-1953  
Preparation: EPA 3545  
Method: EPA 8141A

Project: Fuerte Ranch / E3521.2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-017-449	Solid	GC-35	05/23/08	05/29/08	080523L07

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethoprop	66	71	30-130	7	0-30	
Fensulfothion	78	82	30-130	5	0-30	
Phorate	80	85	30-130	6	0-30	
Ronnel	53	56	30-130	6	0-30	
Tokuthion	57	60	30-130	5	0-30	
Trichloronate	58	62	30-130	6	0-30	

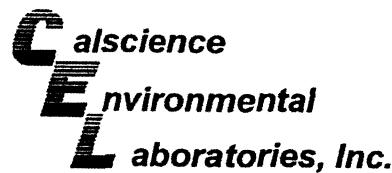
RPD - Relative Percent Difference , CL - Control Limit



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W.O. E3521.2-SC-SC

Plate B-58



## Quality Control - LCS/LCS Duplicate

Sample ID: 080529L03  
Date Analyzed: 06/02/08  
Batch Number: 080529L03

GeoSoils, Inc.  
5741 Palmer Way  
Carlsbad, CA 92010-7248

Date Received: N/A  
Work Order No: 08-05-1953  
Preparation: EPA 8151A  
Method: EPA 8151A

Project: Fuerte Ranch / E3521.2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-033-753	Solid	GC 40	05/29/08	06/02/08	080529L03

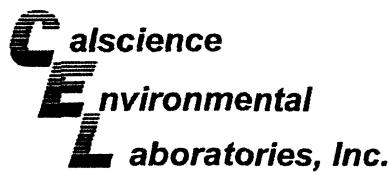
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
2,4-D	98	110	30-130	12	0-30	
2,4,5-T	99	116	30-130	16	0-30	
2,4-DB	91	106	30-130	16	0-30	

RPD - Relative Percent Difference , CL - Control Limit

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Plate B-59



## Quality Control - LCS/LCS Duplicate



GeoSoils, Inc. 5741 Palmer Way Carlsbad, CA 92010-7248	Date Received: Work Order No: Preparation: Method:	N/A 08-05-1953 EPA 3545 EPA 8081A
--	---	--

Project: Fuerte Ranch / E3521.2

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-537-364	Solid	GC 44	05/24/08	05/27/08	080524L07

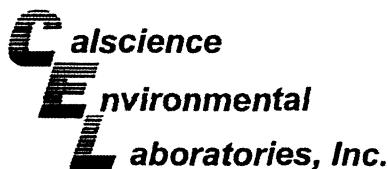
Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	100	99	50-135	0	0-25	
Heptachlor	99	99	50-135	0	0-25	
Endosulfan I	95	96	50-135	1	0-25	
Dieldrin	100	99	50-135	1	0-25	
Endrin	93	91	50-135	2	0-25	
4,4'-DDT	105	103	50-135	2	0-25	

RPD - Relative Percent Difference . CL - Control Limit

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W.O. E3521.2-SC-SC

Plate B-60

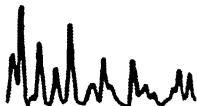


## Glossary of Terms and Qualifiers

A logo consisting of the lowercase letters "nel" in a stylized, blocky font, with a small "e" to the right.

Work Order Number: 08-05-1953

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





**Cohesence  
Environmental  
Laboratories, Inc.**

**WORK ORDER #:** **08** - **05** - **1953**

**Cooler**   /   of   /

## **SAMPLE RECEIPT FORM**

CLIENT: Glossols

DATE: 5/21/0

**TEMPERATURE – SAMPLES RECEIVED BY:**

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
  - Chilled, cooler without temperature blank.
  - Chilled and placed in cooler with wet ice.
  - Ambient and placed in cooler with wet ice.
  - Ambient temperature.

3,7 °C Temperature blank.

Initial-

**LABORATORY (Other than Calscience Courier):**

- °C Temperature blank.
  - °C IR thermometer.
  - Ambient temperature.

**CUSTODY SEAL INTACT:**

**Sample(s):**

Cooler:

No (Not Intact) :

### **Not Present:**

Initial-

**SAMPLE CONDITION:**

- Chain-Of-Custody document(s) received with samples.....  
Sampler's name indicated on COC.....  
Sample container label(s) consistent with custody papers.....  
Sample container(s) intact and good condition.....  
Correct containers and volume for analyses requested.....  
Proper preservation noted on sample label(s).....  
VOA vial(s) free of headspace.....  
Tedlar bag(s) free of condensation.....

**Initial:**

**COMMENTS:**

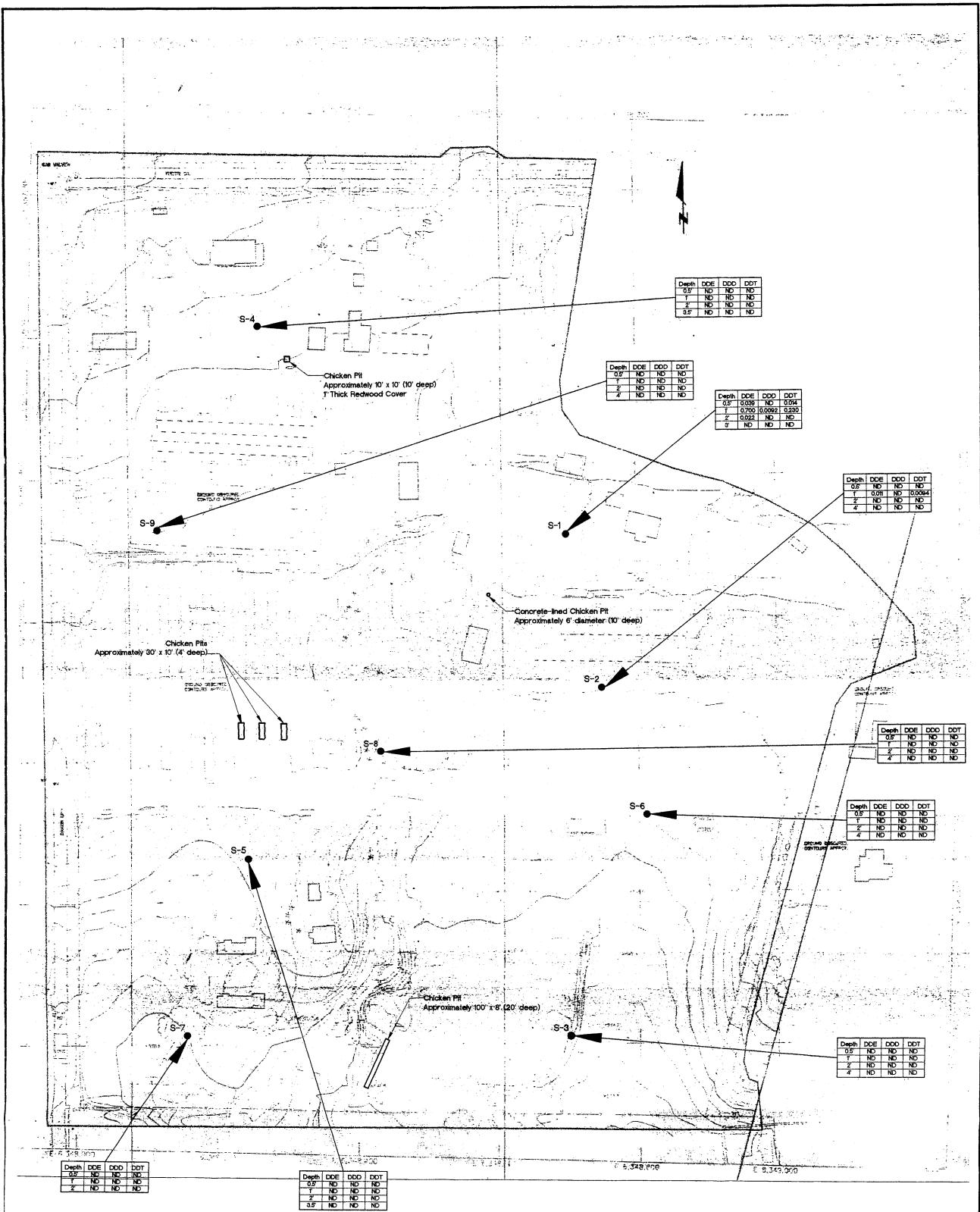


**GeoSells, Inc.**

RIVERSIDE CO.  
ORANGE CO.  
SAN DIEGO CO.

Page 1 of 1

W.O. E36813-SC DATE 04/08 SCALE 1"=0'



### LEGEND

S-9

Approximate location of soil sample collected for pesticide/herbicide analysis (this study)

Depth	DDE	DDD	DDT
0.5	ND	ND	ND
1	ND	ND	ND
2	ND	ND	ND
4	ND	ND	ND

Laboratory test results for soil sample. Results in mg/kg. (ND - not detected at or above laboratory detection limit)

ALL LOCATIONS ARE APPROXIMATE



RIVERSIDE CO.  
ORANGE CO.  
SAN DIEGO CO.

### REVISED SOIL SAMPLE LOCATION MAP

Plate 1 of 1

Base Map From GSI, 2003a

W.O. E3521.2-SC

DATE 06/06

SCALE 1"=60'